

A Dieter SchlÃ¼ter

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Dendronized Polymers: Synthesis, Characterization, Assembly at Interfaces, and Manipulation. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 864-883.	7.2	675
2	Two-Dimensional Polymers: Just a Dream of Synthetic Chemists?. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1030-1069.	7.2	651
3	A two-dimensional polymer prepared by organic synthesis. <i>Nature Chemistry</i> , 2012, 4, 287-291.	6.6	376
4	Gram-scale synthesis of two-dimensional polymer crystals and their structure analysis by X-ray diffraction. <i>Nature Chemistry</i> , 2014, 6, 779-784.	6.6	356
5	Suzuki Polycondensation: Polyarylenes À la Carte. <i>Macromolecular Rapid Communications</i> , 2009, 30, 653-687.	2.0	289
6	Synthesis of a Two-Dimensional Covalent Organic Monolayer through Dynamic Imine Chemistry at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 213-217.	7.2	276
7	Synthesis of Free-Standing, Monolayered Organometallic Sheets at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7879-7884.	7.2	257
8	Dendronized Polymers: Recent Progress in Synthesis. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 328-339.	1.1	221
9	Large Area Synthesis of a Nanoporous Two-Dimensional Polymer at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 3450-3453.	6.6	209
10	Self-Assembly of Focal Point Oligo-catechol Ethylene Glycol Dendrons on Titanium Oxide Surfaces: Adsorption Kinetics, Surface Characterization, and Nonfouling Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 10940-10950.	6.6	185
11	Two-dimensional polymers: concepts and perspectives. <i>Chemical Communications</i> , 2016, 52, 18-34.	2.2	185
12	A Two-Dimensional Polymer from the Anthracene Dimer and Triptycene Motifs. <i>Journal of the American Chemical Society</i> , 2013, 135, 14134-14141.	6.6	179
13	PEG-Stabilized Core-Shell Nanoparticles: Impact of Linear versus Dendritic Polymer Shell Architecture on Colloidal Properties and the Reversibility of Temperature-Induced Aggregation. <i>ACS Nano</i> , 2013, 7, 316-329.	7.3	176
14	Molecular Structure of Single DNA Complexes with Positively Charged Dendronized Polymers. <i>Journal of the American Chemical Society</i> , 2002, 124, 6860-6865.	6.6	173
15	Thermoresponsive Dendronized Polymers. <i>Macromolecules</i> , 2008, 41, 3659-3667.	2.2	148
16	Synthesis of a Covalent Monolayer Sheet by Photochemical Anthracene Dimerization at the Air/Water Interface and its Mechanical Characterization by AFM Indentation. <i>Advanced Materials</i> , 2014, 26, 2052-2058.	11.1	147
17	A Two-Dimensional Polymer Synthesized through Topochemical [2 + 2]-Cycloaddition on the Multigram Scale. <i>Journal of the American Chemical Society</i> , 2017, 139, 2053-2059.	6.6	138
18	A Covalent Chemistry Approach to Giant Macromolecules with Cylindrical Shape and an Engineerable Interior and Surface. <i>Topics in Current Chemistry</i> , 0, , 151-191.	4.0	136

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19	Tuning Polymer Thickness: Synthesis and Scaling Theory of Homologous Series of Dendronized Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 11841-11854.	6.6	130
20	Synthesis of Two-Dimensional Analogues of Copolymers by Site-to-Site Transmetalation of Organometallic Monolayer Sheets. <i>Journal of the American Chemical Society</i> , 2014, 136, 6103-6110.	6.6	128
21	A Poly(para-phenylene) with Hydrophobic and Hydrophilic Dendrons: Prototype of an Amphiphilic Cylinder with the Potential to Segregate Lengthwise. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2370-2372.	7.2	126
22	Ordered Dendritic Nanorods with a Poly(p-phenylene) Backbone. <i>Journal of the American Chemical Society</i> , 1998, 120, 7691-7695.	6.6	120
23	Thermoresponsive dendronized polymers with tunable lower critical solution temperatures. <i>Chemical Communications</i> , 2008, , 5523.	2.2	113
24	Towards Macroscopic Crystalline 2D Polymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13748-13763.	7.2	113
25	The Largest Synthetic Structure with Molecular Precision: Towards a Molecular Object. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 737-740.	7.2	111
26	A Surface-Modified Dendrimer Set for Potential Application as Drug Delivery Vehicles: Synthesis, In Vitro Toxicity, and Intracellular Localization. <i>Chemistry - A European Journal</i> , 2004, 10, 1167-1192.	1.7	107
27	Extremely Long Dendronized Polymers: Synthesis, Quantification of Structure Perfection, Individualization, and SFM Manipulation. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4666-4669.	7.2	106
28	EPR Spectroscopic Characterization of Local Nanoscopic Heterogeneities during the Thermal Collapse of Thermoresponsive Dendronized Polymers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5683-5687.	7.2	105
29	Efficient Synthesis of High Molar Mass, First- to Fourth-Generation Distributed Dendronized Polymers by the Macromonomer Approach. <i>Chemistry - A European Journal</i> , 2003, 9, 6083-6092.	1.7	103
30	Shape-Persistent Macrocycles with Terpyridine Units: Synthesis, Characterization, and Structure in the Crystal. <i>Journal of the American Chemical Society</i> , 2003, 125, 6907-6918.	6.6	102
31	A Cyclotetraicosaphenylene. <i>Chemistry - A European Journal</i> , 1999, 5, 421-429.	1.7	93
32	Homologous Series of Dendronized Polymethacrylates with a Methyleneoxycarbonyl Spacer between the Backbone and Dendritic Side Chain: Synthesis, Characterization, and Some Bulk Properties. <i>Journal of the American Chemical Society</i> , 2004, 126, 6658-6666.	6.6	93
33	Sustained gastrointestinal activity of dendronized polymer-enzyme conjugates. <i>Nature Chemistry</i> , 2013, 5, 582-589.	6.6	92
34	How Dendrons Stiffen Polymer Chains: A SANS Study. <i>Macromolecules</i> , 1999, 32, 4043-4049.	2.2	91
35	The Carbon Skeleton of the Belt Region of Fullerene C ₈₄ (D ₂). <i>Chemistry - A European Journal</i> , 2003, 9, 2745-2757.	1.7	88
36	A Fluorescently Labeled Dendronized Polymer-Enzyme Conjugate Carrying Multiple Copies of Two Different Types of Active Enzymes. <i>Journal of the American Chemical Society</i> , 2012, 134, 11392-11395.	6.6	80

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37	Formation of a Mesoscopic Skin Barrier in Mesoglobules of Thermoresponsive Polymers. <i>Journal of the American Chemical Society</i> , 2011, 133, 10832-10838.	6.6	76
38	Square-Micrometer-Sized, Free-Standing Organometallic Sheets and Their Square-Centimeter-Sized Multilayers on Solid Substrates. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1670-1680.	2.0	71
39	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000216.	1.1	69
40	Synthesis of Amphiphilic Poly(p-phenylene)s with Pendant Dendrons and Linear Chains. <i>Macromolecules</i> , 2000, 33, 2688-2694.	2.2	68
41	Dual Fluorescence of Phenyl and Biphenyl Substituted Pyrene Derivatives. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5941-5947.	1.1	66
42	Synthesis of an oligo(ethylene glycol)-based third-generation thermoresponsive dendronized polymer. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6630-6640.	2.5	65
43	Synthesis and an X-ray Structure of Soluble Phenylacetylene Macrocycles with Two Opposing Bipyridine Donor Sites. <i>Chemistry - A European Journal</i> , 2000, 6, 2362-2367.	1.7	64
44	Dendronized Polymers: Increasing of Dendron Generation by the Attach-to Approach. <i>Macromolecules</i> , 2000, 33, 4321-4328.	2.2	63
45	Liquid-Crystalline Polymers from Cationic Dendronized Polymer-Anionic Lipid Complexes. <i>Journal of the American Chemical Society</i> , 2006, 128, 13998-13999.	6.6	62
46	Dendronized Polymers: Molecular Objects between Conventional Linear Polymers and Colloidal Particles. <i>ACS Macro Letters</i> , 2014, 3, 991-998.	2.3	62
47	Synthetic 2D Polymers: A Critical Perspective and a Look into the Future. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1800719.	2.0	62
48	Covalent Connection of Two Individual Polymer Chains on a Surface: An Elementary Step towards Molecular Nanoconstructions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1932-1935.	7.2	61
49	A Two-Dimensional Polymer Synthesized at the Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10584-10588.	7.2	61
50	Synthesizing molecular fishing nets. <i>Physics Today</i> , 2018, 71, 40-47.	0.3	59
51	5,5-Disubstituted 2,6-Terpyridines through and for Metal-Mediated Cross-Coupling Chemistry. <i>Chemistry - A European Journal</i> , 1999, 5, 854-859.	1.7	58
52	Synthetic Two-Dimensional Polymers. <i>Annual Review of Materials Research</i> , 2017, 47, 361-389.	4.3	58
53	Sequential Immobilization of Enzymes in Microfluidic Channels for Cascade Reactions. <i>ChemPlusChem</i> , 2012, 77, 98-101.	1.3	57
54	Entering a New Level of Use for Suzuki Cross-Coupling: Poly(para-phenylene)s with Fourth-Generation Dendrons. <i>Chemistry - A European Journal</i> , 2000, 6, 3235-3241.	1.7	56

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55	Suzuki Polycondensation Put to Work: A Tough Poly(meta-phenylene) with a High Glass-Transition Temperature. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4956-4959.	7.2	55
56	Synthesis of an Anionically Chargeable, High-Molar-Mass, Second-Generation Dendronized Polymer and the Observation of Branching by Scanning Force Microscopy. <i>Journal of the American Chemical Society</i> , 2006, 128, 5091-5099.	6.6	54
57	Real Space Imaging and Molecular Packing of Dendronized Polymer-Lipid Supramolecular Complexes. <i>Macromolecules</i> , 2007, 40, 7609-7616.	2.2	53
58	Quantitative Aspects of the Dendronization of Dendronized Linear Polystyrenes. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 2540-2550.	1.1	52
59	Single-Site Catalysts on a Cylindrical Support beyond Nanosize. <i>Organometallics</i> , 2003, 22, 4175-4177.	1.1	52
60	Phenylacetylene Macrocycles with Two Opposing Bipyridine Donor Sites: Syntheses, X-ray Structure Determinations, and Ru Complexation. <i>Chemistry - A European Journal</i> , 2002, 8, 357-365.	1.7	50
61	Glassy State of Single Dendronized Polymer Chains. <i>Macromolecules</i> , 2004, 37, 2484-2489.	2.2	49
62	A Rigid, Chiral, Dendronized Polymer with a Thermally Stable, Right-Handed Helical Conformation. <i>Chemistry - A European Journal</i> , 2008, 14, 6924-6934.	1.7	49
63	Comblike Liquid-Crystalline Polymers from Ionic Complexation of Dendronized Polymers and Lipids. <i>Macromolecules</i> , 2007, 40, 2822-2830.	2.2	48
64	Dendronized Polystyrenes with Hydroxy and Amino Groups in the Periphery. <i>Macromolecules</i> , 1998, 31, 9372-9378.	2.2	46
65	Solid-State Photopolymerization of a Shape-Persistent Macrocyclic with Two 1,8-Diazaanthracene Units in a Single Crystal. <i>Journal of the American Chemical Society</i> , 2012, 134, 11721-11725.	6.6	45
66	Chemical Mapping of Nanodefects within 2D Covalent Monolayers by Tip-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 5021-5029.	7.3	45
67	A Facile Synthetic Route to a Third-Generation Dendrimer with Generation-Specific Functional Aryl Bromides. <i>Organic Letters</i> , 2000, 2, 1645-1648.	2.4	44
68	Fluorescent dendrimers with a peptide cathepsin B cleavage site for drug delivery applications. <i>Chemical Communications</i> , 2005, , 1830-1832.	2.2	43
69	Formation of Stable Mesoglobules by a Thermosensitive Dendronized Polymer. <i>Macromolecules</i> , 2009, 42, 7122-7128.	2.2	43
70	Enzyme immobilization on silicate glass through simple adsorption of dendronized polymer-enzyme conjugates for localized enzymatic cascade reactions. <i>RSC Advances</i> , 2015, 5, 44530-44544.	1.7	41
71	Double-Helical Ultrastructure of Polycationic Dendronized Polymers Determined by Single-Particle Cryo-TEM. <i>Chemistry - A European Journal</i> , 2005, 11, 2923-2928.	1.7	40
72	Structure and Enzymatic Properties of Molecular Dendronized Polymer-Enzyme Conjugates and Their Entrapment inside Giant Vesicles. <i>Langmuir</i> , 2013, 29, 10831-10840.	1.6	40

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73	Minimally Invasive Characterization of Covalent Monolayer Sheets Using Tip-Enhanced Raman Spectroscopy. <i>ACS Nano</i> , 2015, 9, 4252-4259.	7.3	40
74	Self-Assembly and Induced Circular Dichroism in Dendritic Supramolecules with Cholesteric Pendant Groups. <i>Journal of the American Chemical Society</i> , 2010, 132, 10882-10890.	6.6	39
75	Suzuki Polycondensation toward High Molecular Weight Poly(m-phenylene)s: Mechanistic Insights and End-Functionalization. <i>Macromolecules</i> , 2012, 45, 5418-5426.	2.2	39
76	Structural Characterization of a Covalent Monolayer Sheet Obtained by Two-Dimensional Polymerization at an Air/Water Interface. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15262-15266.	7.2	39
77	Approaching Two-Dimensional Copolymers: Photoirradiation of Anthracene- and Diaza-Anthracene-Bearing Monomers in Langmuir Monolayers. <i>Macromolecular Rapid Communications</i> , 2015, 36, 151-158.	2.0	38
78	Efficient Synthesis of First- and Second-Generation, Water-Soluble Dendronized Polymers. <i>Macromolecules</i> , 2008, 41, 43-49.	2.2	37
79	Synthesis of Thermally Switchable Poly(N-isopropylacrylamide-block-dendronized methacrylate)s. <i>Macromolecules</i> , 2007, 40, 220-227.	2.2	35
80	Rheology and Packing of Dendronized Polymers. <i>Macromolecules</i> , 2016, 49, 7054-7068.	2.2	34
81	How the World Changes By Going from One- to Two-Dimensional Polymers in Solution. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1638-1650.	2.0	34
82	Narrowly Distributed Dendronized Polymethacrylates by Reversible Addition-Fragmentation Chain Transfer(RAFT) Polymerization. <i>Macromolecular Rapid Communications</i> , 2004, 25, 799-803.	2.0	33
83	Branched versus Linear Polyelectrolytes: Intrinsic Viscosities of Peripherally Charged Dendronized Poly(methyl methacrylate)s and of Their Uncharged Analogues. <i>Macromolecules</i> , 2008, 41, 8173-8180.	2.2	33
84	Immobilization of Peroxidase on SiO ₂ Surfaces with the Help of a Dendronized Polymer and the Avidin-Biotin System. <i>Macromolecular Bioscience</i> , 2011, 11, 1052-1067.	2.1	33
85	Room Temperature Synthesis of a Covalent Monolayer Sheet at Air/Water Interface Using a Shape-Persistent Photoreactive Amphiphilic Monomer. <i>ACS Macro Letters</i> , 2014, 3, 153-158.	2.3	33
86	Covalent Connection of Individualized, Neutral, Dendronized Polymers on a Solid Substrate Using a Scanning Force Microscope. <i>Chemistry - A European Journal</i> , 2006, 12, 6542-6551.	1.7	32
87	EPR Spectroscopy Provides a Molecular View on Thermoresponsive Dendronized Polymers Below the Critical Temperature. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1229-1235.	1.1	32
88	Effect of Molecular Architecture on Single Polymer Adhesion. <i>Langmuir</i> , 2014, 30, 4351-4357.	1.6	32
89	Nanoscale Chemical Imaging of Interfacial Monolayers by Tip-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9361-9366.	7.2	32
90	Amino-Functionalized, Second-Generation Dendritic Building Blocks. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 1275-1283.	1.2	31

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91	Synthesis and polymerization of functionalized dendritic macromonomers. <i>Journal of Polymer Science Part A</i> , 2001, 39, 1940-1954.	2.5	31
92	Self-Folding of Charged Single Dendronized Polymers. <i>Advanced Materials</i> , 2008, 20, 3204-3210.	11.1	31
93	Large Mechanical Response of Single Dendronized Polymers Induced by Ionic Strength. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4250-4253.	7.2	31
94	Simple enzyme immobilization inside glass tubes for enzymatic cascade reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 502-511.	6.7	31
95	Enriching and Quantifying Porous Single Layer 2D Polymers by Exfoliation of Chemically Modified van der Waals Crystals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5683-5695.	7.2	31
96	Improved Suzuki polycondensation: A diiodo versus a dibromo monomer. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 139-142.	1.1	30
97	Shape-Persistent Macrocycles: A Synthetic Strategy that Combines Easy and Site-Specific Decorations with Improved Cyclization Efficiency. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2700-2712.	1.2	30
98	Progress toward the polymerization of a fourth generation dendritic macromonomer. <i>Macromolecular Rapid Communications</i> , 1999, 20, 21-25.	2.0	29
99	Double-Stranded Cycles: Toward C84's Belt Region. <i>Journal of Organic Chemistry</i> , 2007, 72, 424-430.	1.7	29
100	Rational Monomer Design towards 2D Polymers: Synthesis of a Macrocycle with Three 1,8-Anthrylene Units. <i>Chemistry - A European Journal</i> , 2009, 15, 8955-8960.	1.7	29
101	Assessing the Solution Shape and Size of Charged Dendronized Polymers Using Double Electron-Electron Resonance. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1583-1587.	2.1	28
102	Synthesis and polymerization of a amine-terminated dendronized styrene. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 239-245.	1.1	27
103	Synthesis of Pyrene Containing Building Blocks for Dendrimer Synthesis. <i>Synthesis</i> , 2001, 2001, 2143-2155.	1.2	27
104	Self-Assembly of Amphiphilic Poly(paraphenylene)s: Thermotropic Phases, Solution Behavior, and Monolayer Films. <i>Langmuir</i> , 2003, 19, 6537-6544.	1.6	27
105	Macrocyclic Amphiphiles with 1,8-Anthrylene Fluorophores: Synthesis and Attempts toward Two-Dimensional Organization. <i>Organic Letters</i> , 2010, 12, 2778-2781.	2.4	27
106	How to use X-ray diffraction to elucidate 2D polymerization propagation in single crystals. <i>Chemical Society Reviews</i> , 2020, 49, 5140-5158.	18.7	27
107	Towards a Fully Conjugated, Double-Stranded Cycle: A Mass Spectrometric and Theoretical Study. <i>Chemistry - A European Journal</i> , 2008, 14, 1628-1637.	1.7	26
108	Computer simulation of dendronized polymers: organization and characterization at the atomistic level. <i>RSC Advances</i> , 2013, 3, 126-140.	1.7	26

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109	Ink-Free Reversible Optical Writing in Monolayers by Polymerization of a Trifunctional Monomer: Toward Rewritable "Molecular Paper". <i>Advanced Materials</i> , 2017, 29, 1701220.	11.1	25
110	Unraveling two-dimensional polymerization in the single crystal. <i>Journal of Applied Crystallography</i> , 2018, 51, 481-497.	1.9	25
111	Exploring the Chemistry of a Double-Stranded Cycle with the Carbon Skeleton of the Belt Region of the C ₈₄ Fullerene. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 88-100.	1.2	24
112	Polyarylene Synthesis by Suzuki Polycondensation of Aryl Dichlorides and an Aryl Diboronic Acid Ester. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1661-1665.	2.0	24
113	Ion-Induced Stretching of Low Generation Dendronized Polymers with Crown Ether Branching Units. <i>Macromolecules</i> , 2009, 42, 8781-8793.	2.2	24
114	Synthesis of High Generation Dendronized Polymers and Quantification of Their Structure Perfection. <i>Macromolecules</i> , 2014, 47, 4127-4135.	2.2	24
115	In-situ nanospectroscopic imaging of plasmon-induced two-dimensional [4+4]-cycloaddition polymerization on Au(111). <i>Nature Communications</i> , 2021, 12, 4557.	5.8	24
116	Synthesis of 5,5'-Disubstituted 2,2'-Bipyridines for Modular Chemistry. <i>Synthesis</i> , 1999, 1999, 683-687.	1.2	23
117	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 1976-1979.	1.6	23
118	Makroskopische kristalline 2D-Polymere. <i>Angewandte Chemie</i> , 2018, 130, 13942-13959.	1.6	23
119	Structure Elucidation of 2D Polymer Monolayers Based on Crystallization Estimates Derived from Tip-Enhanced Raman Spectroscopy (TERS) Polymerization Conversion Data. <i>Journal of the American Chemical Society</i> , 2019, 141, 9867-9871.	6.6	23
120	Photoinduced Energy- and Electron-Transfer Processes in Dinuclear RuII-OsII, RuII-OsIII, and RuIII-OsII Trisbipyridine Complexes Containing a Shape-Persistent Macrocyclic Spacer. <i>ChemPhysChem</i> , 2006, 7, 229-239.	1.0	22
121	Photochemical Single-Crystal-to-Single-Crystal (SCSC) Reactions of Anthraphane to Dianthraphane and Poly(1D)anthraphane. <i>Crystal Growth and Design</i> , 2017, 17, 6510-6522.	1.4	22
122	Suzuki Polycondensation with a Hairpin Monomer. <i>Organic Letters</i> , 2009, 11, 4112-4115.	2.4	21
123	Synthesis of Dendronized Polymers by a "n+ 2" Approach. <i>Macromolecules</i> , 2012, 45, 8555-8560.	2.2	21
124	Synthetic regimes due to packing constraints in dendritic molecules confirmed by labelling experiments. <i>Nature Communications</i> , 2013, 4, 1993.	5.8	21
125	Computer Simulation of Fifth Generation Dendronized Polymers: Impact of Charge on Internal Organization. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6007-6017.	1.2	20
126	Facile Synthesis and Theoretical Conformation Analysis of a Triazine-Based Double-Decker Rotor Molecule with Three Anthracene Blades. <i>Chemistry - A European Journal</i> , 2014, 20, 6934-6938.	1.7	20

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127	Thiophene-based dendronized macromonomers and polymers. <i>Polymer</i> , 2007, 48, 4996-5004.	1.8	19
128	Synthesis of Compounds Presenting Three and Four Anthracene Units as Potential Connectors To Mediate Infinite Lateral Growth at the Air/Water Interface. <i>Chemistry - A European Journal</i> , 2008, 14, 10797-10807.	1.7	19
129	A Chemical System that Mimics Decoding Operations. <i>ChemPhysChem</i> , 2009, 10, 495-498.	1.0	19
130	Decorating the Edges of a 2D Polymer with a Fluorescence Label. <i>Journal of the American Chemical Society</i> , 2016, 138, 8976-8981.	6.6	19
131	New Parts for a Construction Set of Bifunctional Oligo(het)arylene Building Blocks for Modular Chemistry. <i>Synthesis</i> , 2000, 2000, 442-446.	1.2	18
132	Shape-Persistent Macrocycles with Bipyridine Units: Progress in Accessibility and Widening of Applicability. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 822-837.	1.2	18
133	Loading and release capabilities of charged dendronized polymers revealed by EPR spectroscopy. <i>Chemical Science</i> , 2012, 3, 2550.	3.7	18
134	Interactions between Individual Charged Dendronized Polymers and Surfaces. <i>Macromolecules</i> , 2013, 46, 3603-3610.	2.2	18
135	Synthesis of Neutral, Water-Soluble Oligo-ethylene Glycol-Containing Dendronized Homo- and Copolymers of Generations 1, 1.5, 2, and 3. <i>Macromolecules</i> , 2014, 47, 7337-7346.	2.2	18
136	Building Blocks for the Construction of Large Chloro-Functionalized, Hexagonal Oligophenylene Cycles. <i>European Journal of Organic Chemistry</i> , 1999, 1999, 451-458.	1.2	17
137	Evidence for Fully Conjugated Double-stranded Cycles. <i>Chemistry - A European Journal</i> , 2011, 17, 12163-12174.	1.7	17
138	Solvent induced phenomena in a dendronized linear polymer. <i>Colloid and Polymer Science</i> , 2013, 291, 2879-2892.	1.0	17
139	Dendronized Polymers with Ureidopyrimidinone Groups: An Efficient Strategy To Tailor Intermolecular Interactions, Rheology, and Fracture. <i>Macromolecules</i> , 2017, 50, 5176-5187.	2.2	17
140	Extended π -systems: synthesis and characterization. <i>Synthetic Metals</i> , 1996, 83, 173-176.	2.1	16
141	Hydroxy-Functionalized Dendritic Building Blocks. <i>European Journal of Organic Chemistry</i> , 1998, 1998, 2551-2556.	1.2	16
142	Synthesis of Low-Generation, Aryl-/Alkyl-Type, Nonpolar Dendrons Carrying Protected Hydroxyalkyl Groups in the Periphery. <i>Journal of Organic Chemistry</i> , 2002, 67, 5327-5332.	1.7	16
143	Interactions in dendronized polymers: intramolecular dominates intermolecular. <i>Soft Matter</i> , 2014, 10, 1032.	1.2	16
144	Photochemical Creation of Covalent Organic 2D Monolayer Objects in Defined Shapes via a Lithographic 2D Polymerization. <i>ACS Nano</i> , 2018, 12, 11294-11306.	7.3	16

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145	8,9-Didehydrofluoranthenes as Building Blocks for the Synthesis of Extended Polycyclic Aromatic Hydrocarbons (PAHs). <i>Organic Letters</i> , 2001, 3, 3115-3118.	2.4	15
146	Aggregation of an Amphiphilic Poly(p-phenylene) in Micellar Surfactant Solutions. Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2005, 38, 7451-7455.	2.2	15
147	Dendronized Polymers via Macromonomer Route in Supercritical Carbon Dioxide. <i>Macromolecular Rapid Communications</i> , 2008, 29, 1609-1613.	2.0	15
148	A Set of Homologous Hetarylenediyne Macrocyces by Oxidative Acetylene-Acetylene Coupling. <i>Organic Letters</i> , 2008, 10, 2091-2093.	2.4	15
149	Controlling Hierarchical Self-Assembly in Supramolecular Tailed-Dendron Systems. <i>Macromolecules</i> , 2010, 43, 4752-4760.	2.2	15
150	Single-Molecule Force Measurements by Nano-Handling of Individual Dendronized Polymers. <i>ACS Nano</i> , 2014, 8, 2237-2245.	7.3	15
151	Recording stretching response of single polymer chains adsorbed on solid substrates. <i>Polymer</i> , 2016, 102, 350-362.	1.8	15
152	Single-Crystal-to-Single-Crystal (SCSC) Linear Polymerization of a Desymmetrized Anthraphane. <i>Chemistry - A European Journal</i> , 2018, 24, 15003-15012.	1.7	15
153	On the Improved Accessibility of Dendronized Macromonomers with Peripheral Protected Amine Groups. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 3301-3315.	1.1	14
154	Synthesis of Aryl/Alkyl Building Blocks for Dendrimer and Hyperbranched Polymer Synthesis. <i>Organic Letters</i> , 2004, 6, 667-669.	2.4	14
155	Synthesis of High Molecular Weight Amphiphilic Polyphenylenes by Suzuki Polycondensation. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1610-1618.	1.1	14
156	A Series of First- and Second-Generation Dendronized Polymers with Orthogonally Protected Amine Groups in the Periphery. <i>Macromolecules</i> , 2006, 39, 8943-8951.	2.2	14
157	Aggregation of an Amphiphilic Poly(p-phenylene) in Micellar Surfactant Solutions. Static and Dynamic Light Scattering. <i>Macromolecules</i> , 2005, 38, 7443-7450.	2.2	13
158	Iron(II) Spin Transition Complexes with Dendritic Ligands, Part I. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1613-1622.	1.0	13
159	An Easy and Multigram-Scale Synthesis of Versatile AA- and AB-Type <i>m</i> -Terphenylenes as Building Blocks for Kinked Polyphenylenes. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2953-2955.	1.2	13
160	Library of Single Crystal Structures of a <i>D</i> _{3h} -Symmetric Hydrocarbon Cyclophane: A Comprehensive Packing Study of Anthraphane from 30 Solvents. <i>Crystal Growth and Design</i> , 2017, 17, 3419-3432.	1.4	13
161	Main-chain scission of individual macromolecules induced by solvent swelling. <i>Chemical Science</i> , 2019, 10, 6125-6139.	3.7	13
162	Tip-enhanced Raman spectroscopy for structural analysis of two-dimensional covalent monolayers synthesized on water and on Au (111). <i>Chemical Science</i> , 2019, 10, 9673-9678.	3.7	13

#	ARTICLE	IF	CITATIONS
163	Synthesis of Water-Soluble, Multiple Functionalizable Dendrons for the Conversion of Large Dendrimers or Other Molecular Objects into Potential Drug Carriers. <i>Chemistry - A European Journal</i> , 2005, 11, 5589-5610.	1.7	12
164	In Situ Spectroelectrochemical Studies on Ladder-Type Oligomers in Solution and the Solid State. <i>Chemistry - A European Journal</i> , 2006, 12, 3103-3113.	1.7	12
165	Main-Chain Scission of a Charged Fifth-Generation Dendronized Polymer. <i>Helvetica Chimica Acta</i> , 2012, 95, 2399-2410.	1.0	12
166	The persistence length of adsorbed dendronized polymers. <i>Nanoscale</i> , 2016, 8, 13498-13506.	2.8	12
167	Synthesis of amphiphilic poly(para-phenylene)s by Suzuki polycondensation. <i>Journal of Polymer Science Part A</i> , 2003, 41, 2879-2889.	2.5	11
168	An easy accessible homologous set of first to fifth generation dendritic methacrylic macromonomers and their polymerizations. <i>New Journal of Chemistry</i> , 2007, 31, 1313.	1.4	11
169	Shape-Persistent Macrocycles Functionalised with Coumarin Dyes: Acid-Controlled Energy- and Electron-Transfer Processes. <i>Chemistry - A European Journal</i> , 2008, 14, 10772-10781.	1.7	11
170	Branching Defects in Dendritic Molecules: Coupling Efficiency and Congestion Effects. <i>Macromolecules</i> , 2013, 46, 7550-7564.	2.2	11
171	Modeling Nanosized Single Molecule Objects: Dendronized Polymers Adsorbed onto Mica. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3746-3753.	1.5	11
172	3D Conformations of Thick Synthetic Polymer Chains Observed by Cryogenic Electron Microscopy. <i>ACS Nano</i> , 2019, 13, 3466-3473.	7.3	11
173	Synthesis with Single Macromolecules: Covalent Connection between a Neutral Dendronized Polymer and Polyelectrolyte Chains as well as Graphene Edges. <i>Macromolecular Rapid Communications</i> , 2010, 31, 362-367.	2.0	10
174	Putting aromatic compounds to work: Rational synthesis of organic 2D polymers. <i>Pure and Applied Chemistry</i> , 2012, 84, 861-867.	0.9	10
175	Pushing Synthesis toward the Maximum Generation Range of Dendritic Macromolecules. <i>Macromolecules</i> , 2018, 51, 5420-5429.	2.2	10
176	A Two-Dimensional Polymer Synthesized at the Air/Water Interface. <i>Angewandte Chemie</i> , 2018, 130, 10744-10748.	1.6	10
177	Features that make macromolecules 2D polymers. <i>Reactive and Functional Polymers</i> , 2021, 161, 104856.	2.0	10
178	The Current Understanding of how 2D Polymers Grow Photochemically. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5478-5490.	1.2	10
179	Iron(II) Spin-Transition Complexes with Dendritic Ligands, Part II. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3930-3941.	1.0	9
180	Synthesis of Shape-Persistent Macrocycles with Three 1,8-Diazaanthracene Units and Their Packing in the Single Crystal. <i>Chemistry - A European Journal</i> , 2013, 19, 13348-13354.	1.7	9

#	ARTICLE	IF	CITATIONS
181	Solvatochromism of dye-labeled dendronized polymers of generation numbers 1–4: comparison to dendrimers. <i>Chemical Science</i> , 2016, 7, 4644-4652.	3.7	9
182	Preparation and Applications of Dendronized Polymer–Enzyme Conjugates. <i>Methods in Enzymology</i> , 2017, 590, 445-474.	0.4	9
183	Exfoliation of two-dimensional polymer single crystals into thin sheets and investigations of their surface structure by high-resolution atomic force microscopy. <i>Nanoscale</i> , 2017, 9, 9481-9490.	2.8	9
184	Functional Columnar Liquid Crystalline Phases From Ionic Complexes of Dendronized Polymers and Sulfate Alkyl Tails. <i>Macromolecular Symposia</i> , 2008, 270, 58-64.	0.4	8
185	Copolymerization of a dendronized monomer with styrene and different acrylates: Determination of reactivity ratios. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1372-1377.	2.5	8
186	Progress in the Suzuki polycondensation of fluorene monomers. <i>RSC Advances</i> , 2014, 4, 57026-57034.	1.7	8
187	Hybrid Dendronized Polymers as Molecular Objects: Viscoelastic Properties in the Melt. <i>Macromolecules</i> , 2019, 52, 7331-7342.	2.2	8
188	Nanoscale Chemical Imaging of Interfacial Monolayers by Tip-Enhanced Raman Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 9489-9494.	1.6	7
189	Enriching and Quantifying Porous Single Layer 2D Polymers by Exfoliation of Chemically Modified van der Waals Crystals. <i>Angewandte Chemie</i> , 2020, 132, 5732-5744.	1.6	7
190	Mastering polymer chemistry in two dimensions. <i>Communications Chemistry</i> , 2020, 3, .	2.0	7
191	Dendronized Polymers with Aromatic Sulfonimide Dendrons. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1538-1549.	1.1	6
192	Non-charged, water soluble dendronized polymers. <i>New Journal of Chemistry</i> , 2012, 36, 414-418.	1.4	6
193	A robust procedure for large scale synthesis of a high molar mass, unsubstituted poly(m,p-phenylene). <i>Polymer Chemistry</i> , 2015, 6, 7833-7840.	1.9	6
194	Shielding effects in spacious macromolecules: a case study with dendronized polymers. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 964-968.	1.6	6
195	Thermally Reversible Self-Assembly of Double-Hydrophilic Diblock Copolymers from Poly(<i>N</i> -isopropylacrylamide) and Dendronized Polymethacrylates. <i>Israel Journal of Chemistry</i> , 2009, 49, 49-53.	1.0	5
196	Shape-Persistent Macrocycles as Ligands and Sensitisers of Nd ³⁺ Ions. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1479-1486.	1.0	5
197	Internal organization of macromonomers and dendronized polymers based on thiophene dendrons. <i>Soft Matter</i> , 2015, 11, 1116-1126.	1.2	5
198	Three-Legged 2,2'-Bipyridine Monomer at the Air/Water Interface: Monolayer Structure and Reactions with Ni(II) Ions from the Subphase. <i>Langmuir</i> , 2017, 33, 1646-1654.	1.6	5

#	ARTICLE	IF	CITATIONS
199	Structural Characterization of a Covalent Monolayer Sheet Obtained by Two-Dimensional Polymerization at an Air/Water Interface. <i>Angewandte Chemie</i> , 2017, 129, 15464-15468.	1.6	5
200	Synthesis of a Monomer for Two-Dimensional Polymerization under Technically Feasible Conditions. <i>Helvetica Chimica Acta</i> , 2018, 101, e1800128.	1.0	5
201	Charge transfer initiated by optical excitation in diester substituted biphenylpyrene as a function of the solvent characterized by excited state absorption spectroscopy. <i>Chemical Physics</i> , 2004, 302, 193-202.	0.9	4
202	Synthesis of Macrocycles with Anthracene Units and Amide Bonds; Potential Building Blocks for 1D and 2D Constructions. <i>Synlett</i> , 2012, 23, 1467-1472.	1.0	4
203	Propeller-Shaped C ₃ -Symmetric Macrocycles with Three 1,8-Diazaanthracene Blades as Building Blocks for Photochemically Induced Growth Reactions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4519-4523.	1.2	4
204	Design, synthesis and cytotoxic activity of water-soluble quinones with dibromo-p-benzoquinone cores and amino oligo(ethylene glycol) side chains against MCF-7 breast cancer cells. <i>MedChemComm</i> , 2017, 8, 662-672.	3.5	4
205	Tensile Behavior of a Substituted Poly(m-phenylene) versus Its Parent Counterpart and Synthesis of Related Polyarylenes. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1600561.	1.1	4
206	The Viscosity Law of Dendronized Linear Polymers. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1537-1541.	2.0	3
207	Approaching Two-dimensional Polymers with Macroscopic Sizes. <i>Chimia</i> , 2013, 67, 283-285.	0.3	3
208	Anatomy of a 2D Polymer Formation in the Single Crystal. <i>Macromolecules</i> , 2022, 55, 568-583.	2.2	3
209	Self-Assembly and Hierarchical Structure Formation of Macromolecules. <i>Macromolecular Rapid Communications</i> , 2008, 29, 279-279.	2.0	2
210	Towards 2D and 3D Coordination Polymers: Synthesis of Shape-Persistent Star Monomers with 2,2',6',6'-Terpyridin-4'-yl Units at the Periphery. <i>Synlett</i> , 2010, 2010, 877-880.	1.0	2
211	Frontiers in Polymer Chemistry. <i>Chimia</i> , 2013, 67, 804.	0.3	2
212	Structural dependence of redox-induced dimerization as studied by in situ ESR/UV/Vis-NIR spectroelectrochemistry: the fluoranthropyracylene oligomers. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 2082-6.	7.2	2
213	An Easy and Multigram Scale Synthesis of Anthracene-1,8-ditriflate. <i>Synlett</i> , 2008, 2008, 1793-1796.	1.0	1
214	Gestaltete GrÄf. <i>Nachrichten Aus Der Chemie</i> , 2011, 59, 606-612.	0.0	1
215	Scalable Synthesis of Two-dimensional Polymer Crystals and Exfoliation into Nanometer-thin Sheets. <i>Chimia</i> , 2015, 69, 217-219.	0.3	1
216	Exploring the Loading Capacity of Generation Six to Eight Dendronized Polymers in Aqueous Solution. <i>ChemPhysChem</i> , 2016, 17, 2767-2772.	1.0	1

#	ARTICLE	IF	CITATIONS
217	Ladder-Type Polymers. , 2014, , 1-6.		0
218	Can one determine the density of an individual synthetic macromolecule?. Soft Matter, 2019, 15, 6547-6556.	1.2	0
219	Bridging Length Scales by Photochemistry. ChemPhotoChem, 2019, 3, 64-65.	1.5	0
220	Polyphenylenes. , 2013, , 1-6.		0
221	Dendronized Homopolymers. , 2013, , 1-7.		0